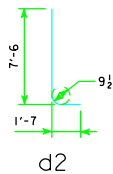


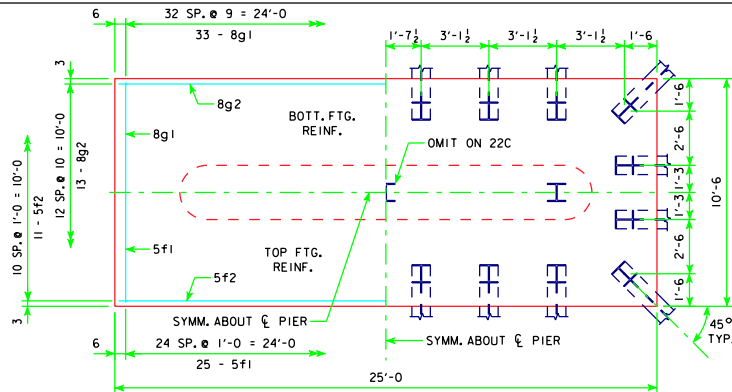
TYPICAL SECTION



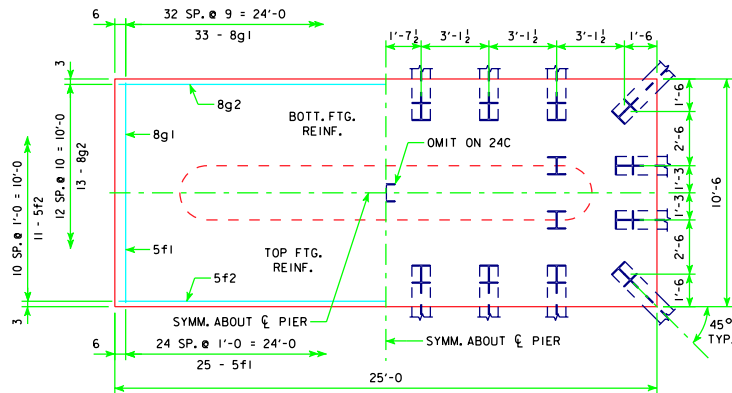
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	P IER NO.	P IER LAYOUT	PILING (HP10x57)		FOOTING SIZE
			DES. BRG. (TONS)	LRFD DES. BRG. (KIPS)	
201'-4	22C		50	143	4' x 10'-6 x 25'
213'-10	23B		50	144	
226'-4	24C		49	142	
243'-0	25C		50	144	
201'-4	22D		49	142	4' x 10'-6 x 27'
213'-10	23C		50	143	
226'-4	24D		49	142	
243'-0	25D		50	143	
201'-4	22D		50	144	4' x 10'-6 x 27'
213'-10	23C		50	145	
226'-4	24D		50	144	
243'-0	25D		50	145	
201'-4	22D		50	146	4' x 10'-6 x 27'
213'-10	24D		49	140	
226'-4	24D		50	145	
243'-0	26B		49	142	
201'-4	23C		50	145	4' x 10'-6 x 27'
213'-10	24D		49	142	
226'-4	25D		50	144	
243'-0	26B		50	145	

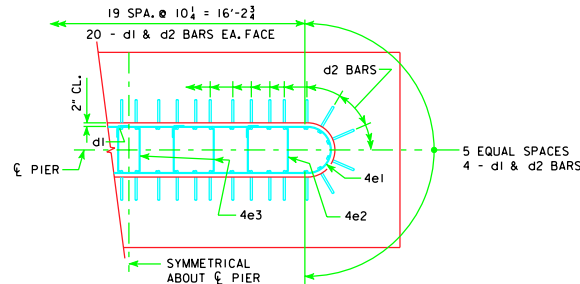
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
4' x 10'-6 x 25'	d2	48 - #9 AS SHOWN	9'-1	1482	3782	38.9
	f1	25 - #5 @ 1'-0	10'-2	265		
	f2	11 - #5 @ 1'-0	24'-8	283		
	g1	33 - #8 @ 0'-9	10'-2	896		
	g2	13 - #8 @ 0'-10	24'-8	856		
4' x 10'-6 x 27'	d2	48 - #9 AS SHOWN	9'-1	1482	4180	42.0
	f1	27 - #5 @ 1'-0	10'-2	286		
	f2	11 - #5 @ 1'-0	26'-8	306		
	g1	33 - #8 @ 0'-9 1/2	10'-2	896		
	g2	17 - #8 @ 0'-7 1/2	26'-8	1210		



4'-0 x 10'-6 x 25'-0 FOR 22C & 23B

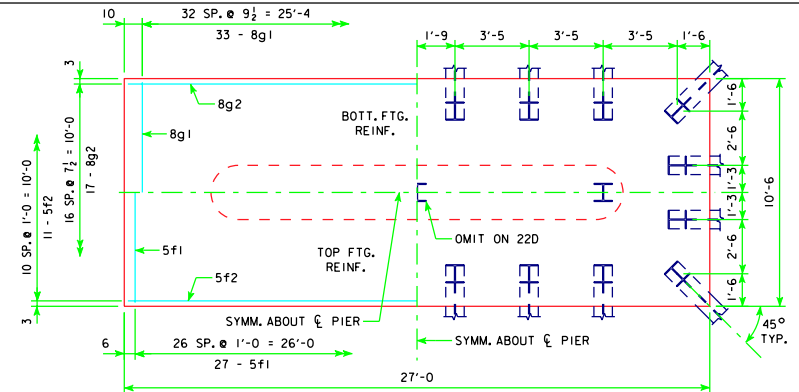


4'-0 x 10'-6 x 25'-0 FOR 24C & 25C

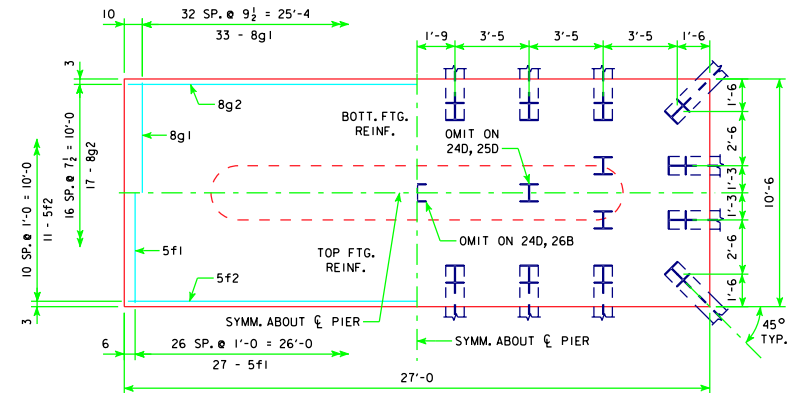


d2 BAR LAYOUT
(SEE SECTION A-A ON SHEET H44-58-07.)

- FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



4'-0 x 10'-6 x 27'-0 FOR 22D & 23C



4'-0 x 10'-6 x 27'-0 FOR 24D, 25D & 26B

FOOTING NOTES:

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-58-07.

BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.

LATEST REVISION DATE 11-09	APPROVED BY BRIDGE ENGINEER <i>Thomas L. McQuinn</i>	Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES MARCH, 2007	
		TEE PIER - 50 TON STEEL PILE FOOTINGS 15° SKEW - H=25' TO 40'	H44-61-07